



US009615204B1

(12) **United States Patent**
Haney

(10) **Patent No.:** **US 9,615,204 B1**
(45) **Date of Patent:** **Apr. 4, 2017**

(54) **TECHNIQUES FOR COMMUNICATION
WITHIN CLOSED GROUPS OF MOBILE
DEVICES**

(56) **References Cited**

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(71) Applicant: **X One, Inc.**, Union City, CA (US)

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 132 days.

OTHER PUBLICATIONS

(21) Appl. No.: **14/805,472**

U.S. Appl. No. 60/574,988, filed May 26, 2004. First named
inventor: Randolph A. Jaramillo. Entitled "Hot-Merchant Network
(Mobile-Commerce or M-Merchant Network)."

(22) Filed: **Jul. 22, 2015**

(Continued)

Primary Examiner — Kwasi Karikari

Related U.S. Application Data

(60) Continuation of application No. 14/479,226, filed on
Sep. 5, 2014, now Pat. No. 9,467,832, which is a
(Continued)

(57) **ABSTRACT**

(51) **Int. Cl.**
H04W 24/00 (2009.01)
H04W 4/02 (2009.01)
H04M 1/725 (2006.01)

(52) **U.S. Cl.**
CPC **H04W 4/021** (2013.01); **H04M 1/72525**
(2013.01); **H04M 1/72572** (2013.01)

(58) **Field of Classification Search**
CPC H04L 67/24; H04L 67/18; H04L 67/22;
H04L 12/5815; H04W 4/021; H04W
4/02;

A system for exchanging GPS or other position data between
wireless devices for purposes of group activities, child
location monitoring, work group coordination, dispatching
of employees etc. Cell phones and other wireless devices
with GPS receivers have loaded therein a Buddy Watch
application and a TalkControl application. The Buddy Watch
application communicates with the GPS receiver and other
wireless devices operated by buddies registered in the users
phone as part of buddy groups or individually. GPS position
data and historical GPS position data can be exchanged
between cell phones of buddies and instant buddies such as
tow truck drivers via a buddy watch server. Emergency
monitoring services can be set up with notifications to
programmable individuals in case an individual does not
respond. Positions and tracks can be displayed. TalkControl
simplifies and automates the process of joining talk groups
for walkie talkie services such as that provided by Nextel.

(Continued)

25 Claims, 51 Drawing Sheets

The screenshot shows a mobile application interface with a title bar containing four buttons: "BUDDIES", "SETTINGS", "UPDATE", and "HELP". Below the title bar is a list of buddies, each with a name and a location data field. The buddies listed are: TENNIS TEAM, SKI, AUSTIN, JOSE, KIRSTEN, PAUL, and 12313134Kdx1. The location data for 12313134Kdx1 is expanded, showing a table with the following data:

INST01	52
LAST: 10:47	54
DIS: 4.7Mi	56
DIR: NE (45°)	58
LAT: 25°15m27s	60
LNG: 22°13m48s	62
SPEED: NONE	64
MAPIT	66
MAPIT W HIS	68

At the bottom of the screen, there is a "HOME" button and three empty buttons.

SCREEN SHOT SHOWING AN INSTANT BUDDIES LOCATION